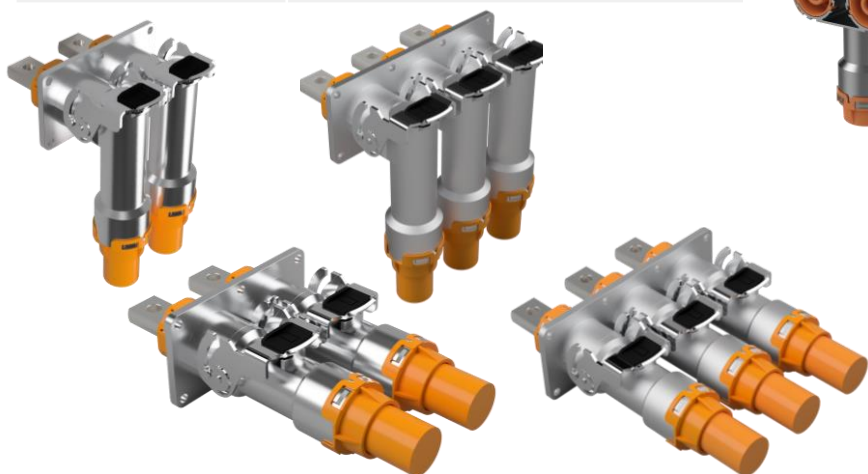


PowerMate 500 & 300

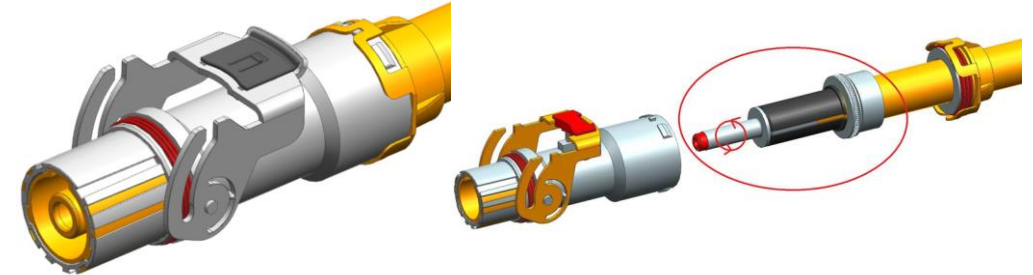
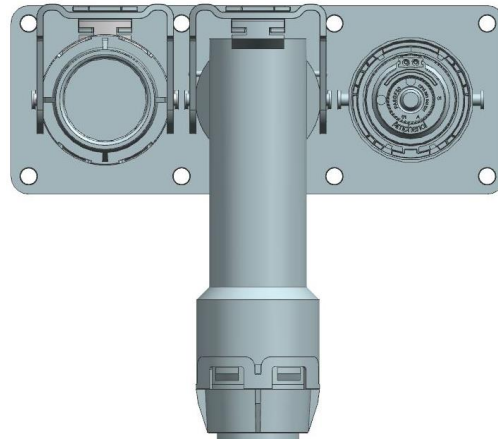
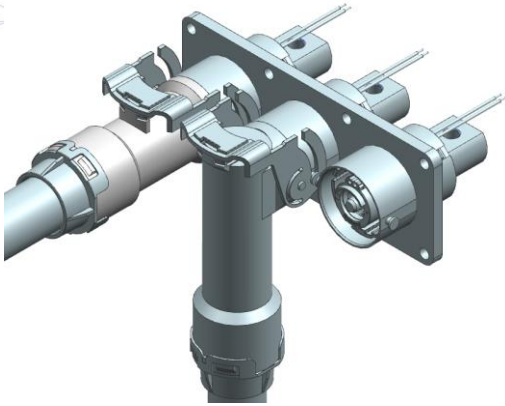
Criteria	PowerMate
Temperature Range	-40 to 125 °C
IP-Rating (Water&Dust)	IP6k7,IP6k9k (mated)
Unmated (touchproof)	IPXXB (touchproof, LV)
Mated (touchproof)	IPXXD (LV)
Voltage Rating	1500 V DC
HVIL	yes
Mating cycles	60 cycles
Salt Water Spray	According LV (600h+)
CPA	Yes
Vibration	according ISO16750-3
Validation process	According LV215



Series	Contact size	Ways	Wire gauge	Rated current	Availability
PowerMate 500	14 mm RADSOK ®	1,2 ways	70mm ²	380 A	SOP
		1,2 ways	95mm ²	410 A	
		1,2 ways	120 mm ²	470 A	
		1,2 ways	150 mm ²	520 A	
	14 mm Multipole Housing	2,3 ways	Similar to standard	Similar to standard	Serial parts available SOP 06/2025 (fully tested according specification)
PowerMate 300	8 mm RADSOK ®	1,2 ways	16mm ²	70A	Serial parts available SOP 1-way SOP 2-way 05/2025 (fully tested according specification)
		1,2 ways	25mm ²	100 A	
		1,2 ways	35 mm ²	150 A	
		1,2 ways	50 mm ²	220 A	
	8 mm Multipole Housing	2,3 ways	Similar to standard	Similar to standard	Serial parts available SOP 06/2025 (fully tested according specification)



Multipole Housings



Multipole headers (2- & 3 ways, PowerMate 300 and 500) to mate with 1-way cable connector.

- Improved handling at higher wire gauges.
- Same panel cut out as TE Powertube.
- Cables are rotatable within cable connector for improved handling.
- Metal lever for increased robustness.

PowerMate Advantages-& Applications

- Target Markets: Commercial Transportation, Agriculture, Construction, Heavy Equipment & Rail Mass Transit.
- Target Applications: Applications and Aggregates on electrified propulsion systems that require up to 1500V DC and current carrying capacity of 70-520 A continuous (@80 C°).
 - Battery-electric
 - Fuel-Cell electric

Advantage Summary:

- Cable connector with lever for improved mating forces.
- Smallest mating height on 90deg solution orientation via connector.
- Up to 12 codings.
- 2 contact and housing sizes for wire gauges from 16-150 mm².
- Assembly with hand crimping tools for easy assembly, also for higher wire gauges.
 - No EMPT, no high tool invest necessary.
- Crimp tools for all wire gauges available.
- Multipole Header solutions available.
- Sub series tested for Vibration according ISO 16750/3 – 7&9 .
- Validation according EMEA Automotive standard (LV & ISO; designed AND tested).
- UV resistance of orange material according UL. PM is UV resistant.
- Reinforced insulation, necessary for high altitudes and HV applications within Rail Mass Transit market and Fuel cell electric applications.